

STATE UNIVERSITY OF NEW YORK
New Paltz, New York.

Quantum Physics

Course No. PHY331 (3 credits)
Fall 2023

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Text

Introduction to Quantum Mechanics, 3rd ed. by David J. Griffiths and Darrell F. Schroeter.

Course Description

The following chapters of the text will be covered (some selected sections may be excluded).

Chap. 1	The Wave Function.
Chap. 2	Time-Independent Schrödinger Equation.
Chap. 3	Formalism.
Chap. 4	Quantum Mechanics in Three Dimensions.
Chap. 5	Identical Particles.

Evaluation

Midterm exam	40%
Final exam	60%

Problems for Home Work

Chap. 1 – 1, 3, 5, 7, 9, 14.
Chap. 2 – 1, 2, 4, 10, 15, 20, 21, 34.
Chap. 3 – 2, 4, 5, 7, 10, 13, 14.
Chap. 4 – 9, 15, 19, 22, 25, 27, 29, 30, 34, 35 38.
Chap. 5 – 1, 5, 6, 8.

Administrative Addenda

Student Learning Outcomes

To acquire skills in the mathematical analysis of problems in quantum physics.

Campus-Wide Policies

<https://www.newpaltz.edu/acadaff/academic-policies-including-academic-integrity/>

Deadlines

<http://www.newpaltz.edu/events/academic.php>